

Temperature recording and documentation in the cold chain of frozen mackerel between Norway and Japan

Using RFID – temperature sensors

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Objective

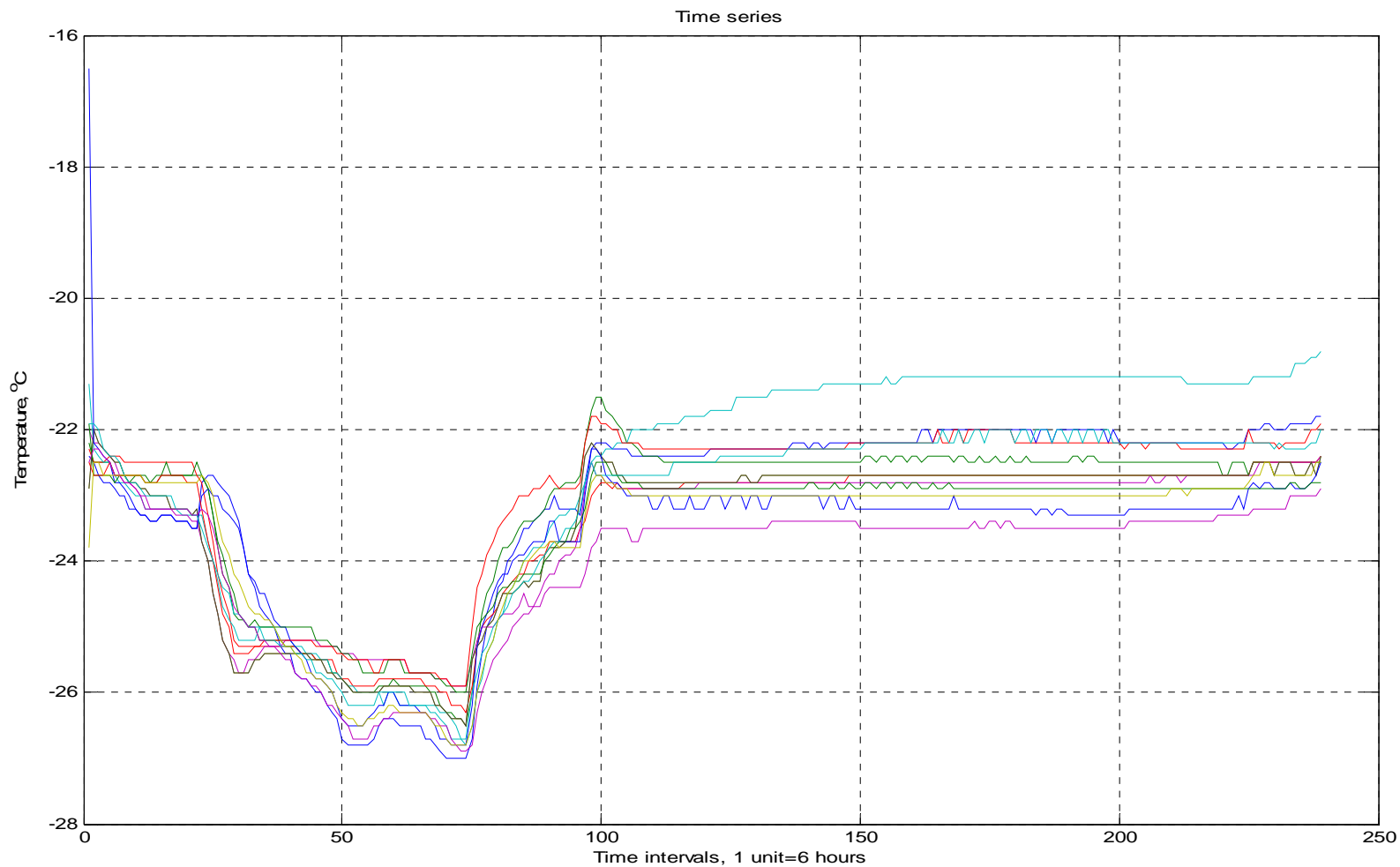
- To document the temperature range in the cold chain of frozen mackerel sent for Norway to Japan
- And to test the ability of RFID – temperature sensor to be used as temperature monitors in the same chain

Method

- RFID – temperature sensor were placed in the cardboard boxes with frozen mackerel
- Cardboard boxes were palletized and sent from Norway to Japan



Results



Results

- Temperature records indicates that the temperature range fluctuates between – 23 to -27 °C
- Only 17 out of 24 RFID tags where readable after transport and indicates that the technology are premature for this use.